

DRAFT

NSCI: High-Performance Computing Security Workshop

WHEN: Sep. 29-30, 2016 Start Time: 8:30am End Time: 6:00pm	WHERE: NIST Gaithersburg 100 Bureau Drive Gaithersburg, MD 20899
--	--

AGENDA

	Thursday, Sep. 29, 2016 Building 101, Green Auditorium	
		Topic
8:30 – 8:40	Chuck Romine (NIST)	Welcome to NIST and the Information Technology Laboratory
8:40 – 8:50	Will Koella (NSA)	Workshop Goals: (presentation)
8:50 – 9:10	Chuck Romine (NIST)	HPC Expert on Why Security Matters
9:10 – 9:30	Sean Peisert (Berkeley Lab)	Security Expert on Why HPC Matters
9:30 – 9:50	TBD	HPC Current Use and Practice: HPC Center <ul style="list-style-type: none">• what's the application, user community, system architecture• how to trade usability against security?• what to worry/not-worry about wrt security
9:50 – 10:10	Networking Break	
10:10 – 10:30	Buddy Bland (Oak Ridge)	HPC Current Use and Practice: USG <ul style="list-style-type: none">• what's the application, user community, system architecture• why is HPC needed in this use case?• how to trade usability against security?• what to worry/not-worry about wrt security
10:30 – 10:50	Tom Lang (Proctor and Gamble)	HPC Current Use and Practice: Industry <ul style="list-style-type: none">• what's the application, user community, system architecture• why is HPC needed in this use case?• how to trade usability against security?• what to worry/not-worry about wrt security
10:50 – 11:00	Matt Barrett (NIST)	The NIST Security Framework for Critical Information Systems (presentation) <ul style="list-style-type: none">• might cause some shared terminology• we can explain that all the areas are needed
11:00 – 11:20	TBD	Threats to HPC Today and Tomorrow (presentation) <ul style="list-style-type: none">• establish a shared view• stories of attacks
11:20-11:40	Tom Hinke (NASA)	Securing NASA's Most Powerful Supercomputer
11:40 – 1:00	Breakout Session: "HPC Security Best Practices: Strengths and Weaknesses" <ul style="list-style-type: none">• multiple rooms, same topic	

DRAFT

1:00 – 2:00	Break for Lunch
2:00 – 3:20	Breakout Session: Open Science and the Insider Threat: Can They Be Reconciled? <ul style="list-style-type: none"> multiple rooms, same topic
3:20 – 3:40	Networking Break
3:40 – 5:00	Breakout Session: What New Hardware/Software Features and Architectural Structures Would Revolutionize Security for HPC? <ul style="list-style-type: none"> E.g., what is current HW cutting edge, and what is on the way Multiple rooms, same topic
5:00 – 5:20	Announcements and Feedback
adjourn	
5:20 – 5:40	Hotwash (just organizers)

	Friday, Sep. 30, 2016 Building 101, Green Auditorium	
8:30 – 8:40	Announcements. Feedback Forms Distributed.	
8:40 - 10:10	Breakout Group Report Outs	
10:10 – 10:40	TBD	Security opportunity/challenge of high performance computing (keynote)
10:40 – 11:00		Networking Break
11:00 – 11:20	Angelos Keromytis (DARPA)	System and Application Monitoring (presentation)
11:20 – 12:00	TBD (moderator)	Panel. HPC monitoring: how detailed can it be? What problems would fine-grained monitoring solve? Can data provenance be maintained through monitoring? Panelists: Russ Fromkin (Intel), TBD.
12:00 - 1:00	Break for Lunch	
1:00 – 1:10	TBD	Agency Perspective: NSA
1:10 – 1:20	Robinson Pino	Agency Perspective: DOE
1:20 – 1:30	TBD	Agency Perspective: NSF
1:30 – 1:40	TBD	Agency Perspective: NIST
1:40 – 1:50	TBD	Agency Perspective: DOD
1:50 – 2:00	TBD	Agency Perspective: OSTP

DRAFT

2:00 – 2:30	TBD (moderator)	Panel. Revisit: <ul style="list-style-type: none">• HPC Perspective on Why Security Matters• Security Perspective on Why HPC Matters Panelists nominated by organizers based on previous sessions.
adjourn		